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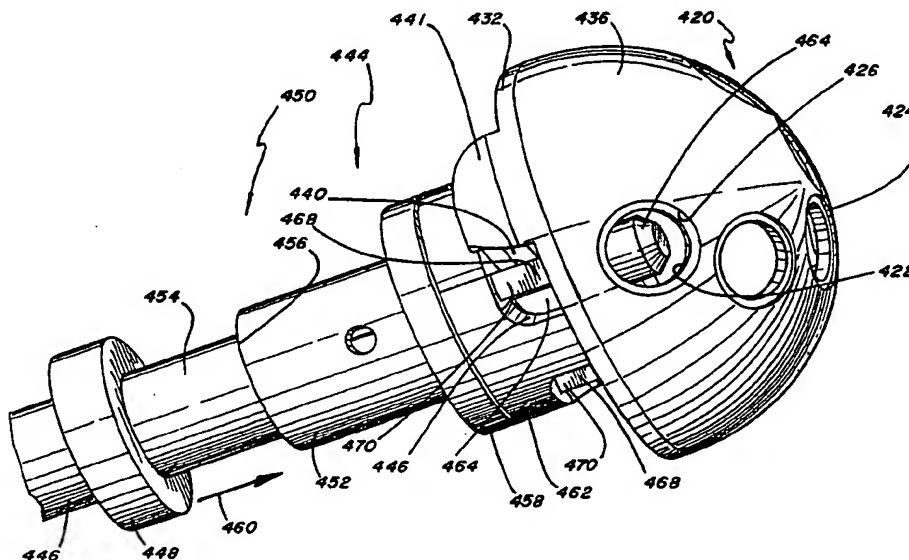
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(71)(72) Applicants and Inventors: FISHBEIN, Meyer [US/US]; 34725 Mission Hills Drive, Rancho Mirage, CA 92270 (US). WHITE, Patrick, Michel [US/US]; 509 Commerce Street, Franklin Lakes, NJ 07417 (US).			
(74) Agents: CHIATALAS, John, L. et al.; Trademark & Patent Counselors of America, P.C., 19th floor, 915 Broadway, New York, NY 10010-7108 (US).			
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(54) Title: HOLLOW DOME REAMER WITH REMOVABLE TEETH



(57) Abstract

The surgical reamer (20) has a hollow dome (24) with apertures (26) spaced apart arranged in arcs (28) extending from an apex (30) of the dome to the base portion (32) of the dome, and removable teeth (22) positioned in the apertures. Each cutting tooth (22) has a flange (52) that is aligned flush with the external surface of the dome (24), and a raised cutting edge (50) extending above the flange and the external surface (36) of the dome, and an interior passageway (39) communicating between the outside and inside of the dome. In one embodiment, a base plate (56) is removably secured on the base portion (32) of the dome (24) to provide closure of the central cavity (34) of the dome. One, two or three mounting bars having means for attaching a powered rotary driver thereto may be affixed to a back side of the base.

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 99/05951

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 6 A61B17/16 B23C5/20

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 A61B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 658 290 A (PRECIFAR) 19 August 1997 (1997-08-19) cited in the application figure 2	1-31
A	US 4 621 637 A (M.FISHBEIN) 11 November 1986 (1986-11-11)  column 2, line 48-57 column 5, line 3 - line 12 column 5, line 24 - line 26 figures 1,3	1-5,7, 10-14, 19, 22-24, 26,28-30

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

23 June 1999

Date of mailing of the international search report

07 OCT 1999

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

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NICE P.

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 99/05951

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FR 2 542 230 A (SEB) 14 September 1984 (1984-09-14) abstract figure 1	1, 19, 27
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A	EP 0 307 949 A (SUMITOMO ELECTRIC INDUSTRIES) 22 March 1989 (1989-03-22) column 4, line 27 - line 46 figure 1	1, 3-5, 7, 19, 24, 27
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# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US 99/05951

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-31

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

1. Claims: 1-31

Surgical reamer with plurality of removable cutters

2. Claims: 32-40

Surgical reamer with mounting bars for attaching driver